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APPLICATION NO	.] 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,581	. =-	12/30/2003	Werner M.A. Grootaert	59469US002	8236
32692	7590	05/06/2005	•	EXAM	INER
	· · -	PROPERTIES C	WU, IVES J		
	PO BOX 33427 ST. PAUL, MN 55133-3427			ART UNIT	PAPER NUMBER
				1713	

DATE MAILED: 05/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/748,581	GROOTAERT, WERNER M.A.				
Office Action Summary	Examiner	Art Unit				
	lves Wu	1713				
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet with	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATION OF THIS COMMUNICATION OF THIS COMMUNICATION OF THIS COMMUNICATION OF THE STATE OF THIS COMMUNICATION OF THE STATE OF THIS COMMUNICATION OF THIS COMM	ATION. 37 CFR 1.136(a). In no event, however, may a repetation. lays, a reply within the statutory minimum of thirty ory period will apply and will expire SIX (6) MONT, by statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	on <u>29 <i>March 2004</i></u> .					
2a) This action is FINAL . 2b)	⊠ This action is non-final.					
3) Since this application is in condition for	3) Since this application is in condition for allowance except for formal matters, prosecution as to the m					
closed in accordance with the practice	under Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims		•				
4)⊠ Claim(s) 1-27 is/are pending in the app	olication.					
4a) Of the above claim(s) is/are	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-27</u> is/are rejected.	·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restrictio	n and/or election requirement.					
Application Papers						
9) The specification is objected to by the E	Examiner.	·				
· _ ·) accepted or b) objected to b	y the Examiner.				
Applicant may not request that any objection	· · · · · · · · · · · · · · · · · · ·	•				
Replacement drawing sheet(s) including th	- · · ·					
11) The oath or declaration is objected to b	· · · · · · · · · · · · · · · · · · ·					
	, and Examiner hold the angleshou					
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority do 	cuments have been received.					
Certified copies of the priority do	cuments have been received in Ap	pplication No				
3. Copies of the certified copies of	the priority documents have been r	eceived in this National Stage				
application from the Internationa	l Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action f	or a list of the certified copies not re	eceived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Su					
 2) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO-1449 or PT 		/Mail Date formal Patent Application (PTO-152)				
Paper No(s)/Mail Date 3/29/2004.	6) \(\int \) Other:					

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-27, drawn to Composition, classified in class 524, subclass 326.2.
- II. Claims 28-30, drawn to Article, classified in class 428, subclass 421.
- III. Claims 31-33, drawn to Method, classified in class 260, subclass 8+...

The inventions are distinct, each from the other because of the following reasons:

Inventions Group II and Group I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because subcombination is not necessary a perhalogenated elastomer such as perbromoleastomer. The subcombination has separate utility such as coating etc.

Inventions Group II and Group III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product claimed can be made by

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another and materially different process with different process conditions, such as different molding process with different operational conditions to cure the article.

Inventions Group I and Group III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions in Group I, it discloses materials used for making the product, Group III, it disclose methods used for making this product. The methods disclosed in Group III also can be used to make other product with different materials disclosed in Group I, such as extrusion, molding are used for most polymer products.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II or III, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention: -NHNH2.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1,4,8,10,11,12,16,17,19,22,24,25,26,27, 28,30,32 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

During a telephone conversation with **Attorney Dean Hart** on **April 15**, **2005** a provisional election was made with traverse to prosecute the invention of Group

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I, Claims **1-27** with species -**NHNH₂**. Affirmation of this election must be made by applicant in replying to this Office action. Claims 28-33 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 1-27 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-29 of U.S. Patent No. US006846880B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following reasons:

- 1). Both curative compounds, one from prior art, the other from present application are called amidine-containing curative in both teaching, they are amidine derivatives per se, they bear the same amidine function, Col. 3, line 38-40 (prior art); page 3,4 (present specification).
- 2). The process of making those two curative as described in prior art and claims2,3 are similar. Then following the synthetic sequence as described in the above

Curative A by first reaction with ammonia to make the bisamide, dehydration to give the **bisnitrile** and then reaction with **ammonia** to give the fluorochemical bisamidine, Col. 13, line 52-56 (prior art). In claim 2: the curative is a reaction product of **nitrile** and **hydrazine**, which optionally is fluorinated or perfluorinated.

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3). In the prior art, the general formula:

R₂N \ C -|| RN

Where: R is independently, H, an optionally substituted alkyl, alkenyl, aryl, alkaryl, or alkenylaryl group.

The general formula in present application:

A \ C - || RN

Where: A is NHNH₂, R is independently, H, an optionally substituted alkyl, alkenyl, aryl, alkaryl, or alkenylaryl group.

In view of the R group, it does not indicate the important special functionality relationship in this curative because the options of choosing R group are open to a large various different function groups.

In view of the fact, the curing reaction is crosslinking by double bond C=NR mainly in the curatives.

In view of the difference between -NHNH₂ in present application and -NH₂ when R is H (prior art), it does not indicate the difference attributing to the curing function if NH₂ (prior art) is replaced by NHNH₂ as disclosed by the applicant.

Therefore, R group is not critical issue as optional choice for the amidinecontaining curative, -NH₂ and -NHNH₂ will not distinct patently as utility is concerned.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-27 are rejected under 35 U.S.C. 103(a) as being obvious over Grootaert et al (US006846880B2).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2). The -NHNH2 group will

not either interfere the original curative function if it replaces the -NH2 group in the curative presented in the prior art, or show new improvements. Combining with the reason stated above, it would have been obvious to the one of ordinary skill in the art to change the -NH₂ by -NHNH₂.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 20050054783A1 "Fluoropolymer Curing System" Grootaert et al...

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ives Wu whose telephone number is 571-272-1114.

The examiner can normally be reached on 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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